

**PALM INTRANET**

Day : Thursday  
Date: 8/26/2004  
Time: 12:04:11

**Inventor Name Search Result**

Your Search was:

Last Name = MUHR-SWEENEY

First Name = AUDREY

Application#	Patent#	Status	Date Filed	Title	Inventor Name 8
<a href="#">60438871</a>	Not Issued	159	01/09/2003	DUAL CLEANING PEN	MUHR-SWEENEY, AUDREY
<a href="#">60346465</a>	Not Issued	159	01/07/2002	DUAL CLEANING PEN	MUHR-SWEENEY, AUDREY
<a href="#">60260490</a>	Not Issued	159	01/08/2001	DUAL CLEANING PEN	MUHR-SWEENEY, AUDREY
<a href="#">60133444</a>	Not Issued	159	05/11/1999	CLEAN LEADER CARD	MUHR-SWEENEY, AUDREY
<a href="#">60133443</a>	Not Issued	159	05/11/1999	UNIVERSAL CLEANING CARD	MUHR-SWEENEY, AUDREY
<a href="#">10644471</a>	Not Issued	030	08/20/2003	UNIVERSAL CLEANING APPARATUS	MUHR-SWEENEY, AUDREY
<a href="#">10383375</a>	Not Issued	041	03/07/2003	DUAL CLEANING APPARATUS	MUHR-SWEENEY, AUDREY
<a href="#">10039437</a>	<a href="#">6618890</a>	150	11/09/2001	UNIVERSAL CLEANING APPARATUS	MUHR-SWEENEY, AUDREY

**Inventor Search Completed: No Records to Display.**

	<b>Last Name</b>	<b>First Name</b>
<b>Search Another:</b>	<input type="text" value="muhr-sweeney"/>	<input type="text" value="audrey"/>
<b>Inventor</b>	<input type="button" value="Search"/>	

To go back use Back button on your browser toolbar.

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## WEST Search History





DATE: Thursday, August 26, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	L7 and feeding	18
<input type="checkbox"/>	L7	14 and (134/6 or 134/8).ccls.	80
<input type="checkbox"/>	L6	L5 and (adhesive substrate)	5
<input type="checkbox"/>	L5	L4 and (cleaning substrate)	263
<input type="checkbox"/>	L4	L3 and (sheet or card)	59374
<input type="checkbox"/>	L3	L1 and (clean\$ or decontaminat\$)	153763
<input type="checkbox"/>	L2	L1 and (cleaning or decontaminating)	90462
<input type="checkbox"/>	L1	((magnetic heads) or (internal optics) or sensors or (electronic equipment) or printers or copiers or (facsimile machines) or scanners or (bar code readers) or (magnetic readers) or (optical readers) or typewriters)	2161945

END OF SEARCH HISTORY

## Hit List

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### Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040035444 A1

L6: Entry 1 of 5

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040035444  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040035444 A1

TITLE: Universal cleaning apparatus

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Muhr-Sweeney, Audrey	Huntington	NY	US	

US-CL-CURRENT: 134/6; 134/8, 15/104.002

ABSTRACT:

A cleaning apparatus for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path includes a base material having first and second surfaces. The apparatus also includes a cleaning substrate disposed on the first surface for cleaning at least one internal working component of the electronic equipment; and an adhesive substrate disposed on one of the first and second surfaces for decontaminating at least one internal working component of the electronic equipment. The present disclosure also relates to a method for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path which includes the steps of: 1) providing a base material having first and second surfaces, the base material having a cleaning substrate disposed on the first surface and an adhesive substrate disposed on the second surface; 2) inserting the base material into the electronic equipment along the predetermined media path; and 3) moving the base material through the predetermined media path such that the cleaning substrate cleans and polishes at least one internal working component of the electronic equipment and the adhesive substrate decontaminates at least one internal working component of the electronic equipment.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20020112300 A1

L6: Entry 2 of 5

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020112300  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020112300 A1

TITLE: Universal cleaning apparatus

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Muhr-Sweeney, Audrey	Huntington	NY	US	

US-CL-CURRENT: 15/104.002; 15/104.93, 15/105, 15/210.1, 15/DIG.12, 428/42.3,  
451/526

ABSTRACT:

A cleaning apparatus for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path includes a base material having first and second surfaces. The apparatus also includes a cleaning substrate disposed on the first surface for cleaning at least one internal working component of the electronic equipment; and an adhesive substrate disposed on one of the first and second surfaces for decontaminating at least one internal working component of the electronic equipment. The present disclosure also relates to a method for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path which includes the steps of: 1) providing a base material having first and second surfaces, the base material having a cleaning substrate disposed on the first surface and an adhesive substrate disposed on the second surface; 2) inserting the base material into the electronic equipment along the predetermined media path; and 3) moving the base material through the predetermined media path such that the cleaning substrate cleans and polishes at least one internal working component of the electronic equipment and the adhesive substrate decontaminates at least one internal working component of the electronic equipment.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6618890 B2

L6: Entry 3 of 5

File: USPT

Sep 16, 2003

US-PAT-NO: 6618890  
DOCUMENT-IDENTIFIER: US 6618890 B2

TITLE: Universal cleaning apparatus

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Muhr-Sweeney; Audrey	Huntington	NY	11743	

US-CL-CURRENT: 15/104.002; 15/210.1, 428/343, 428/354, 451/326, 451/461

h e b b g e e e f e b e f b e

## ABSTRACT:

A cleaning apparatus for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path includes a base material having first and second surfaces. The apparatus also includes a cleaning substrate disposed on the first surface for cleaning at least one internal working component of the electronic equipment; and an adhesive substrate disposed on one of the first and second surfaces for decontaminating at least one internal working component of the electronic equipment. The present disclosure also relates to a method for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path which includes the steps of: 1) providing a base material having first and second surfaces, the base material having a cleaning substrate disposed on the first surface and an adhesive substrate disposed on the second surface; 2) inserting the base material into the electronic equipment along the predetermined media path; and 3) moving the base material through the predetermined media path such that the cleaning substrate cleans and polishes at least one internal working component of the electronic equipment and the adhesive substrate decontaminates at least one internal working component of the electronic equipment.

14 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 4. Document ID: US 5866475 A

L6: Entry 4 of 5

File: USPT

Feb 2, 1999

US-PAT-NO: 5866475

DOCUMENT-IDENTIFIER: US 5866475 A

TITLE: Method of forming solder bumps

DATE-ISSUED: February 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yanagida; Toshiharu	Kanagawa			JP

US-CL-CURRENT: 438/613; 257/E21.508, 438/106, 438/118, 438/126, 438/615

## ABSTRACT:

An Al electrode pad and a photoresist pattern having an opening portion on the Al electrode pad on a semiconductor substrate on which a surface protective film has been formed are formed. Then, a barrier metal layer is formed on the whole substrate surface, and a resist film and the barrier metal layer on the resist film are removed by lift-off, thus forming a solder bump foundation layer. Furthermore, an adhesive tape is stuck to the substrate surface and then the adhesive tape is peeled off, thereby to perform a residue removing process for removing resist film residues and useless barrier metal residues other than the solder bump foundation layer. With this, it is possible to further remove residues that have remained on

the substrate surface without being lifted off and caused a defective device with an adhesive tape, thus making it possible to form a solder bump of high reliability in flip chip bonding. In this way, there is provided a method of forming such a solder bump that is capable of flip chip bonding on a semiconductor device with high reliability.

20 Claims, 18 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Drawn De
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5. Document ID: US 20040035444 A1, WO 200067924 A1, AU 200048403 A, EP 1183109 A1, US 20020112300 A1, US 6618890 B2

L6: Entry 5 of 5

File: DWPI

Feb 26, 2004

DERWENT-ACC-NO: 2001-031820

DERWENT-WEEK: 200416

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TITLE: Universal cleaning apparatus for electronic equipment, disposes adhesive substrate on one of surfaces of base material for decontaminating internal working component

INVENTOR: MUHR-SWEENEY, A

PRIORITY-DATA: 1999US-133444P (May 11, 1999), 1999US-133443P (May 11, 1999), 2001US-0039437 (November 9, 2001), 2003US-0644471 (August 20, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040035444 A1	February 26, 2004		000	B08B007/00
WO 200067924 A1	November 16, 2000	E	028	B08B007/00
AU 200048403 A	November 21, 2000		000	
EP 1183109 A1	March 6, 2002	E	000	B08B007/00
US 20020112300 A1	August 22, 2002		000	B08B007/00
US 6618890 B2	September 16, 2003		000	B08B007/00

INT-CL (IPC): B08 B 7/00; B32 B 9/00

ABSTRACTED-PUB-NO: US20020112300A

BASIC-ABSTRACT:

NOVELTY - The apparatus includes a base material (12) having surfaces (13,15). A cleaning substrate (14) is disposed on the surface (13) for cleaning an internal working component of electronic equipment. An adhesive substrate (16) is disposed on one of the surfaces for decontaminating an internal working component.

DETAILED DESCRIPTION - The base material is dimensioned in the shape of a data carrying card and is semi-compliant and also includes a lapping film. The cleaning substrate is selected from among aluminum oxide, calcined alumina, cerium oxide, chromium oxide, diamond, ferrous oxide, silicon carbide, silicon dioxide, and cubic

boron nitrate minerals. The cleaning substrate and the adhesive substrate are disposed on the same surface in strips in an alternating manner. The adhesive substrate includes one adhesive for adhering to one surface of the base material and another adhesive for decontaminating the internal working components as the cleaning apparatus moves along preset media path. An INDEPENDENT CLAIM is also included for internal working component cleaning method.

USE - For cleaning and polishing rollers and reading, writing or scan heads of printers, such as polyvinyl chloride printers, direct printers, thermal transfer printers, electronic typewriters, optical reader, smart card reader, facsimile, copiers, photo and optic sensors, chips, internal optics, smart card readers, smart chips, bar code encoders and decoders, magnetic readers, scanners.

ADVANTAGE - Enables cleaning both the roller and heads of certain electronic equipment and removing excess residue from the rollers and heads without compromising the integrity of internal working components of the equipment.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective view of cleaning apparatus.

Base material 12

Surfaces 13,15

Cleaning substrate 14

Adhesive substrate 16

ABSTRACTED-PUB-NO:

WO 200067924A EQUIVALENT-ABSTRACTS:

NOVELTY - The apparatus includes a base material (12) having surfaces (13,15). A cleaning substrate (14) is disposed on the surface (13) for cleaning an internal working component of electronic equipment. An adhesive substrate (16) is disposed on one of the surfaces for decontaminating an internal working component.

DETAILED DESCRIPTION - The base material is dimensioned in the shape of a data carrying card and is semi-compliant and also includes a lapping film. The cleaning substrate is selected from among aluminum oxide, calcined alumina, cerium oxide, chromium oxide, diamond, ferrous oxide, silicon carbide, silicon dioxide, and cubic boron nitrate minerals. The cleaning substrate and the adhesive substrate are disposed on the same surface in strips in an alternating manner. The adhesive substrate includes one adhesive for adhering to one surface of the base material and another adhesive for decontaminating the internal working components as the cleaning apparatus moves along preset media path. An INDEPENDENT CLAIM is also included for internal working component cleaning method.

USE - For cleaning and polishing rollers and reading, writing or scan heads of printers, such as polyvinyl chloride printers, direct printers, thermal transfer printers, electronic typewriters, optical reader, smart card reader, facsimile, copiers, photo and optic sensors, chips, internal optics, smart card readers, smart chips, bar code encoders and decoders, magnetic readers, scanners.

ADVANTAGE - Enables cleaning both the roller and heads of certain electronic equipment and removing excess residue from the rollers and heads without compromising the integrity of internal working components of the equipment.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective view of cleaning apparatus.

Base material 12

Surfaces 13,15

Cleaning substrate 14Adhesive substrate 16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw. De
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Term	Documents
ADHESIVE	946106
ADHESIVES	191469
SUBSTRATE	1770328
SUBSTRATES	398995
(5 AND (ADHESIVE ADJ SUBSTRATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L5 AND (ADHESIVE SUBSTRATE) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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### Search Results - Record(s) 1 through 10 of 18 returned.

☐ 1. Document ID: US 20040035444 A1

L8: Entry 1 of 18

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040035444  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040035444 A1

TITLE: Universal cleaning apparatus

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Muhr-Sweeney, Audrey	Huntington	NY	US	

US-CL-CURRENT: 134/6; 134/8, 15/104.002

ABSTRACT:

A cleaning apparatus for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path includes a base material having first and second surfaces. The apparatus also includes a cleaning substrate disposed on the first surface for cleaning at least one internal working component of the electronic equipment; and an adhesive substrate disposed on one of the first and second surfaces for decontaminating at least one internal working component of the electronic equipment. The present disclosure also relates to a method for cleaning and decontaminating the internal working components of a piece of electronic equipment along a predetermined media path which includes the steps of: 1) providing a base material having first and second surfaces, the base material having a cleaning substrate disposed on the first surface and an adhesive substrate disposed on the second surface; 2) inserting the base material into the electronic equipment along the predetermined media path; and 3) moving the base material through the predetermined media path such that the cleaning substrate cleans and polishes at least one internal working component of the electronic equipment and the adhesive substrate decontaminates at least one internal working component of the electronic equipment.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20020170572 A1

L8: Entry 2 of 18

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020170572  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020170572 A1

TITLE: Apparatus and method for cleaning a semiconductor substrate

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tomita, Hiroshi	Yokohama-shi		JP	
Nadahara, Soichi	Yokohama-shi		JP	
Sato, Motoyuki	Yokohama-shi		JP	

US-CL-CURRENT: 134/1.3; 134/147, 134/153, 134/33, 134/6, 134/902

ABSTRACT:

There is proposed an apparatus and method for cleaning a semiconductor substrate, which make it possible to minimize the adhesion of mist in a cleaning tank at the occasion of cleaning a semiconductor substrate, to realize a-high removal effect of residual polishing particles, and to enable to obtain a clean surface. In view of preventing a mist generated by the jet of high pressure water from re-adhering to the substrate during the cleaning of a semiconductor substrate, a cover member is disposed at a mist-generating region so as-to prevent the splash of the mist. Additionally, a cavity is caused to generate by contacting a high pressure water with a still water, and high-frequency generated by the generation of the cavity is utilized for removing the residual polishing particles. Alternatively, the ejection of high pressure water against the surface of the substrate is performed in a liquid phase such-as ultrapure water, thereby preventing the generation of mist.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20020066469 A1

L8: Entry 3 of 18

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020066469  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020066469 A1

TITLE: Maintenance device for folding/insertion machine

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Krasuski, Marek	Fontenay Aux Roses		FR	
Montigny, Patrice	Fontenay Le Fleury		FR	

US-CL-CURRENT: 134/6; 15/104.93, 15/210.1

## ABSTRACT:

This invention relates to a device for maintaining the take-up rollers of document feeders of a folding/insertion machine, comprising a sheet imbibed with a liquid maintenance product and intended to be entrained inside the machine by the take-up rollers, this self-cleaning sheet comprising retaining means for stopping its advance in the machine and allowing its withdrawal once the take-up rollers of the feeder are stopped.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KAMC	Drawn De
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☐ 4. Document ID: US 6742529 B2

L8: Entry 4 of 18

File: USPT

Jun 1, 2004

US-PAT-NO: 6742529

DOCUMENT-IDENTIFIER: US 6742529 B2

TITLE: Resin recycling system

DATE-ISSUED: June 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imai; Takateru	Tokyo			JP
Urabe; Kenichi	Tokyo			JP
Ishikawa; Kouji	Tokyo			JP

US-CL-CURRENT: 134/63, 134/184, 134/186, 134/190, 134/200, 134/25.1, 134/6, 134/61, 134/62, 241/38, 241/68, 241/98, 241/DIG.38

## ABSTRACT:

A system for recycling reusable resin mold products recovered from discarded apparatuses is disclosed. This recycling system includes a crushing system for crushing resin mold products one kind by one kind into crushed resinous pieces and packing the same in a bag, a classification system for irradiating a light beam to the resin in the bag and classifying the bags into respective kinds of resins based on a reflected beam therefrom, a cleaning system for separately cleaning the respective kind of crushed resinous pieces taken out of the bag to remove foreign matters adhered onto the surfaces of the crushed resinous pieces therefrom, and a recovery system for recovering the cleaned crushed resinous pieces.

4 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KAMC	Drawn De
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☐ 5. Document ID: US 6676766 B2

L8: Entry 5 of 18

File: USPT

Jan 13, 2004

US-PAT-NO: 6676766

DOCUMENT-IDENTIFIER: US 6676766 B2

TITLE: Method for cleaning a substrate using a sherbet-like composition

DATE-ISSUED: January 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harano; Riichiro	Kawasaki			JP
Furusawa; Masami	Kawasaki			JP
Joya; Satoshi	Kawasaki			JP

US-CL-CURRENT: 134/7; 134/2, 134/25.5, 134/32, 134/34, 134/37, 134/6, 134/902,  
438/906, 451/38, 451/39, 451/60, 510/175

## ABSTRACT:

A method for cleaning a substrate with sherbet-like composition, comprising mixing the liquid organic agent and pure water in a mixing vessel to form a mixture, supercooling the mixture uniformly at a predetermined temperature while stirring the mixture, wherein the stirring includes creating vortices in the mixture, growing the vortices and diffusing the grown vortices in the mixture, thus providing sherbet-like cleaning composition and moving the sherbet-like cleaning composition relative to the substrate to be cleaned.

11 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUMC	Draw De
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☐ 6. Document ID: US 6630035 B1

L8: Entry 6 of 18

File: USPT

Oct 7, 2003

US-PAT-NO: 6630035

DOCUMENT-IDENTIFIER: US 6630035 B1

TITLE: Cleaning unit for recording rotational drum and cleaning method

DATE-ISSUED: October 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Hironobu	Kanagawa			JP
Sawano; Mitsuru	Kanagawa			JP
Hashiguchi; Akihiro	Kanagawa			JP

US-CL-CURRENT: 134/9; 134/33, 134/6, 15/256.5, 15/256.51, 15/256.53

ABSTRACT:

There are provided a solution applying portion 104 disposed opposite to the outer surface of the recording rotational drum 34 such that sliding on the outer surface of the drum is permitted and arranged to apply cleaning solution to the outer surface of the drum; and a scraping portion 108 disposed at a position more forward than the solution applying portion 104 in a direction in which the drum is rotated such that sliding on the outer surface of the drum is permitted and arranged to scrape the applied cleaning solution off the outer surface of the drum so that dust X is removed from the surface of the drum.

14 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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7. Document ID: US 6547887 B1

L8: Entry 7 of 18

File: USPT

Apr 15, 2003

US-PAT-NO: 6547887

DOCUMENT-IDENTIFIER: US 6547887 B1

TITLE: Multilayer pressure-sensitive adhesive label constructions

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ko; Chan U.	Arcadia	CA		
Sartor; Luigi	Pasadena	CA		
Koch; Carol A.	San Gabriel	CA		
Keller; Paul	Gottlieben			CH
Brown; Ian	Leiderdorp			NL
Min; Kyung W.	Mentor	OH		
Xie; Li	Painesville	OH		
Mallya; Prakash	Sierra Madre	CA		
Li; Kai	Diamond Bar	CA		

US-CL-CURRENT: 134/6; 134/15, 134/16, 134/26, 428/343, 428/354, 428/356, 524/270, 524/272, 524/395

ABSTRACT:

Multilayer PSA label constructions that achieve a good balance of properties, namely, adhesive performance, convertibility, and laser printer performance, and, optionally, good wet-out on plastic substrates and low haze. The multilayer PSA construction comprising a facestock, a multilayer adhesive coating, and a release liner. The adhesive coating is made of a face side adhesive (FSA) layer comprising

a first emulsion acrylic PSA, which is in contact with the inner surface of the facestock, and a liner side adhesive (LSA) layer, comprising a second emulsion acrylic PSA different from the first acrylic PSA, which is in contact with the FSA. The adhesive coating has a coat weight of less than about 26 g/m.sup.2 and a flow of less than about 50 .mu.m at room temperature. The construction exhibits a loop tack value of at least about 3.5 N/25 mm at 5.degree. C. on a polyethylene substrate. It has been discovered that multilayer PSA label constructions exhibiting these properties also exhibit good convertibility and laser printer performance.

45 Claims, 11 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 8. Document ID: US 6431185 B1

L8: Entry 8 of 18

File: USPT

Aug 13, 2002

US-PAT-NO: 6431185  
DOCUMENT-IDENTIFIER: US 6431185 B1

TITLE: Apparatus and method for cleaning a semiconductor substrate

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tomita; Hiroshi	Yokohama			JP
Nadahara; Soichi	Yokohama			JP
Sato; Motoyuki	Yokohama			JP

US-CL-CURRENT: 134/1.3; 134/32, 134/33, 134/34, 134/6, 134/902, 15/102, 15/77, 15/88.1

ABSTRACT:

There is proposed an apparatus and method for cleaning a semiconductor substrate, which make it possible to minimize the adhesion of mist in a cleaning tank at the occasion of cleaning a semiconductor substrate, to realize a high removal effect of residual polishing particles, and to enable to obtain a clean surface. In view of preventing a mist generated by the jet of high pressure water from re-adhering to the substrate during the cleaning of a semiconductor substrate, a cover member is disposed at a mist-generating region so as to prevent the splash of the mist. Additionally, a cavity is caused to generate by contacting a high pressure water with a still water, and high-frequency generated by the generation of the cavity is utilized for removing the residual polishing particles. Alternatively, the ejection of high pressure water against the surface of the substrate is performed in a liquid phase such as ultrapure water, thereby preventing the generation of mist.

11 Claims, 42 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KAMC	Drawn De
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☐ 9. Document ID: US 6299691 B1

L8: Entry 9 of 18

File: USPT

Oct 9, 2001

US-PAT-NO: 6299691

DOCUMENT-IDENTIFIER: US 6299691 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of and apparatus for processing a substrate under a reduced pressure

DATE-ISSUED: October 9, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oda; Hirohisa	Utsunomiya			JP
Takehana; Yasushi	Utsunomiya			JP

US-CL-CURRENT: 118/715, 118/724, 118/725, 118/728, 134/33, 134/6

## ABSTRACT:

A method of performing treatment under a reduced pressure for processing a substrate placed in a chamber, includes the steps of providing a heater within the chamber, for heating the substrate, placing the substrate on a susceptor, the substrate being placed above the heater within the chamber, chucking the substrate on the susceptor above the heater, heating the substrate with the heater, and evacuating the interior of the chamber to provide a reduced pressure environment.

16 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KAMC	Drawn De
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☐ 10. Document ID: US 6143091 A

L8: Entry 10 of 18

File: USPT

Nov 7, 2000

US-PAT-NO: 6143091

DOCUMENT-IDENTIFIER: US 6143091 A

TITLE: Method for removing a substance deposited on a sheet

DATE-ISSUED: November 7, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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h e b b g e e e f e b e f b e

Saito; Masatoshi	Tokyo	JP
Maruyama; Tooru	Fujisawa	JP
Watanabe; Hisao	Sagamihara	JP

US-CL-CURRENT: 134/9; 134/15, 134/32, 134/6

## ABSTRACT:

In a method for removing toner or similar substance deposited on a recording sheet or similar sheet, projections are formed on a back-up member and located at portions on which the rear of a separating member slide. While a sheet is passed through a pressing portion in contact with the separating member, the projections raise the rear of the separating member toward the surface of the sheet carrying the toner. Hence, even solitary particles of the substance adjoining relatively thick and large masses of the substance can contact the front of the separating member. Hence, the solitary particles are prevented from remaining on the sheet.

4 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Ds
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☐ 11. Document ID: US 6074108 A

L8: Entry 11 of 18

File: USPT

Jun 13, 2000

US-PAT-NO: 6074108

DOCUMENT-IDENTIFIER: US 6074108 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Photographic sensitive material processing equipment, method of cleaning the photographic sensitive material processing equipment, cleaning cartridge, cleaning material, cleaning member recognition system and cleaning member

DATE-ISSUED: June 13, 2000

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohwaki; Junichi	Wakayama			JP
Inoue; Mikio	Wakayama			JP
Miyawaki; Hiroshi	Wakayama			JP
Miyamori; Takahisa	Wakayama			JP
Yamaji; Yoshiyuki	Wakayama			JP

US-CL-CURRENT: 396/564; 134/6, 15/104.93

**ABSTRACT:**

A method of cleaning a film transport unit (5), in which a cleaning leader (80) formed of a synthetic fiber (81) hardened with a resin (82) is transported through a transport path of the film transport unit, and the cleaning leader (80) removes substances adhering to a magnetic head (32a) disposed in the transport path, with said cleaning leader. Preferably, the synthetic fiber is hardened by being impregnated with a resin (82) selected from urethane resin, acrylic resin and silicone resin. Preferably, the cleaning leader (80) is elongated to be an identical or similar shape to a film (2) transported through the film transport unit (5). At least a leading end of the cleaning leader is hardened.

26 Claims, 39 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawl De
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☐ 12. Document ID: US 5891259 A

L8: Entry 12 of 18

File: USPT

Apr 6, 1999

US-PAT-NO: 5891259

DOCUMENT-IDENTIFIER: US 5891259 A

TITLE: Cleaning method for printing apparatus

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ikeda; Atsushi	Kanagawa			JP
Yoshikawa; Nobuhiro	Aliso Viejo	CA		

US-CL-CURRENT: 134/6; 134/9, 15/104.002

## ABSTRACT:

A cleaning methodology for cleaning a paper path surface upon which paper travels within a printing apparatus. The cleaning device is a flexible substrate sheet having a first side and a second side, with the first side coated preferably in its entirety with an exposed adhesive having a tack strength between about 0.0002 and about 0.12 pound force-square inch. The second side of the substrate sheet can have laminated thereto a foam resin to provide a flexible thickness that assures pressured contact with all paper path surfaces to be cleaned. A lint-free cloth layer can be laminated to the foam resin if present, or the cloth layer can be laminated directly to the second surface of the sheet substrate. Operability occurs as the substrate sheet is fed into the printing apparatus and travels there through along the paper-path surfaces upon which paper is conveyed. Of particular importance is the cleaning of rubber paper-feed rollers within printing equipment and whose surfaces can have accumulated thereupon paper powder, color pigment, dust, ink, toner, etc.

6 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 13. Document ID: US 5837063 A

L8: Entry 13 of 18

File: USPT

Nov 17, 1998

US-PAT-NO: 5837063

DOCUMENT-IDENTIFIER: US 5837063 A

TITLE: Operator aid for cleaning recessed reflective sensors in document processing

DATE-ISSUED: November 17, 1998

## INVENTOR-INFORMATION:

h e b b c g b c c e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klug; Philip D.	Westland	MI		

US-CL-CURRENT: 134/6; 134/18, 15/106, 15/160

## ABSTRACT:

A method of providing a track-cleaning wand for use in a document handling machine having a track along which documents are transported past sensors separated by a distance d and recessed away from the side walls of the track, this wand including a rigid handle with, at one end, a rigid elongate spacer bar carrying a pair of like brushes spaced apart by the sensor separation-distance and having bristles long enough to reach the face of a sensor, when the spacer bar is swept along the track.

8 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw De
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14. Document ID: US 5407489 A

L8: Entry 14 of 18

File: USPT

Apr 18, 1995

US-PAT-NO: 5407489  
DOCUMENT-IDENTIFIER: US 5407489 A

TITLE: Method for cleaning pickup and feed rolls

DATE-ISSUED: April 18, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoover; Stephen R.	Semmes	AL		

US-CL-CURRENT: 134/6; 134/42, 134/7

## ABSTRACT:

A method and apparatus for cleaning pickup and feed rolls of machines such as printers, copiers, facsimile machines and the like. The method utilizes a roll cleaner which includes an absorbent layer and cleaning solution provided within the absorbent layer. The roll cleaner is sufficiently thick to prevent the roll cleaner from feeding through the machine. The pickup and feed rolls will spin against the absorbent layer for cleaning. The roll cleaner may be stored in a resealable cellophane bag.

5 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 15. Document ID: US 5030292 A

L8: Entry 15 of 18

File: USPT

Jul 9, 1991

US-PAT-NO: 5030292

DOCUMENT-IDENTIFIER: US 5030292 A

TITLE: Method for cleaning a thermal head

DATE-ISSUED: July 9, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koike; Seiji	Shizuoka			JP
Tashiro; Takeshi	Mishima			JP
Fushimi; Kazuhiro	Mishima			JP

US-CL-CURRENT: 134/32; 134/40, 134/6

## ABSTRACT:

A method for cleaning a thermal head with a raised portion formed on a printing surface portion corresponding to a heat generating element. The method comprises passing a nonwoven sheet, havng an alcohol-impregnated forward portion and a dried rear portion, between a printing surface of the thermal head and a platen, upon the rotation of the platen, in a fashion compressed therebetween to allow the printing surface to be cleaned with the alcohol impregnated in the forward portion of the nonwoven sheet and the alcohol to be sucked in the dried rear portion of the nonwoven sheet.

12 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 16. Document ID: US 4867798 A

L8: Entry 16 of 18

File: USPT

Sep 19, 1989

US-PAT-NO: 4867798

DOCUMENT-IDENTIFIER: US 4867798 A

TITLE: Method of and installation for cleaning motor vehicles

DATE-ISSUED: September 19, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Weikmann; Guenther

D-7918 Illertissen

DE

US-CL-CURRENT: 134/6; 134/123, 134/25.1, 134/25.4, 134/9, 15/21.1, 15/DIG.2

## ABSTRACT:

A method of wet-cleaning and drying and/or visual inspection, servicing and repair of automobiles in which cleaning liquids are applied to the vehicle by manually operated means and wherein the vehicle is moved by foreign power past an operator's stand in such a manner that all lateral surfaces of the vehicle successively come to face said stand. Similar operations are carried out at the same time to the underfloor and/or the roof of the vehicle. An installation for carrying out the method in a roofed treatment room which comprises means for supplying cleaning liquids required for the treatment of the automobiles and is characterized by a platform rotatably disposed in the floor of the treatment room. Multi-appliances sets serve to supply several cleaning liquids of different nature independently of each other. One set is disposed on an operator's stand in the stationary floor region of the treatment room, below the rotatable platform, and on the roof framework of the treatment room.

28 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Drawn De
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## 17. Document ID: US 4590422 A

L8: Entry 17 of 18

File: USPT

May 20, 1986

US-PAT-NO: 4590422

DOCUMENT-IDENTIFIER: US 4590422 A

TITLE: Automatic wafer prober having a probe scrub routine

DATE-ISSUED: May 20, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Milligan; Vernon C.	Los Altos	CA		

US-CL-CURRENT: 324/754; 134/6, 15/1, 451/28, 451/67

## ABSTRACT:

In an automatic wafer prober, the prober steps through a certain predetermined sequence of die on the wafer. After a certain predetermined number of die have been probed, the prober automatically interrupts the probing sequence and steps the prober off of the wafer onto an abrasive element for scrubbing clean the probe tips. Thereafter, the prober returns to its predetermined probing sequence. The abrasive element is preferably fixidly secured to the wafer chuck. A flat of the abrasive element serves as an alignment flat for registration with a flat of the wafer.

10 Claims, 30 Drawing figures  
Exemplary Claim Number: 5  
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KUMC	Draw De
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☐ 18. Document ID: US 4190464 A

L8: Entry 18 of 18

File: USPT

Feb 26, 1980

US-PAT-NO: 4190464

DOCUMENT-IDENTIFIER: US 4190464 A

TITLE: Method for cleaning a photoconductive surface with liquid toner

DATE-ISSUED: February 26, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Komori; Shigehiro	Yokohama			JP
Sakamaki; Hisashi	Yokohama			JP
Hattori; Hiroyuki	Mitaka			JP
Iida; Toshihide	Tokyo			JP
Miyamoto; Koichi	Tokyo			JP
Umezawa; Kazumi	Yokohama			JP

US-CL-CURRENT: 134/6; 399/349

ABSTRACT:

An image forming device having a rotatable medium, a latent image forming device for forming a latent image on the rotatable medium, apparatus for applying liquid developer to the latent image to form a toner image, apparatus to transfer the toner image to transfer material and a cleaning apparatus for cleaning the rotatable medium after transfer. The device is operated so that there is an initial application of developer to the cleaning apparatus to loosen any dried toner after which the rotatable medium undergoes a prerotation of at least one half of a complete rotation before image formation is begun. After termination of an image forming operation, the rotatable medium is rotated for a predetermined time to clean its surface and then stopped.

29 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KUMC	Draw De
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